

Belinda Thando Mhlanga

-- South African Soccer Dataset - SQL RESULTS

--1. View the first 100 rows of the dataset to understand its structure.
SELECT top 100 * FROM[dbo].[sa_soccer_dataset_advanced];

The screenshot shows the SQL Server Management Studio interface with the following details:

- Query Editor window title: --1. View the first 100 rows of the dataset to understand its structure.
- Text input area contains: SELECT top 100 * FROM[dbo].[sa_soccer_dataset_advanced];
- Results pane displays the first 100 rows of the sa_soccer_dataset_advanced table.
- Table columns: player_name, team, date_of_birth, age, marital_status, number_of_kids, nationality, country_of_birth, position, preferred_foot, height_
- Data rows (approximate):
 - 1 Syanda Dlamini Stellenbosch FC 1995-05-28 00:00:00.0000000 30 Widowed 0 South African South African Defender Right 167
 - 2 Thabo Ndlovu Cape Town City 2004-06-01 00:00:00.0000000 21 Single 1 Zimbabwean Zimbabwean Forward Right 183
 - 3 Vusi Molefe Stellenbosch FC 2006-09-20 00:00:00.0000000 19 Single 0 Nigerian Nigerian Forward Left 167
 - 4 Thembi Mahlangu Bloemfontein Celtic 2004-02-08 00:00:00.0000000 21 Divorced 0 Zambian Zambian Goalkeeper Left 166
 - 5 Nokuthula Sithole Polokwane City 2003-03-18 00:00:00.0000000 22 Divorced 3 Nigerian Nigerian Goalkeeper Both 193
 - 6 Thembi Sithole Kaizer Chiefs 1989-02-14 00:00:00.0000000 36 Married 2 Nigerian Nigerian Goalkeeper Left 193
 - 7 Siyanda Mahlangu Chippa United 1989-12-09 00:00:00.0000000 36 Single 0 Zambian Zambian Defender Both 181
 - 8 Lerato Mashaba Polokwane City 1998-01-31 00:00:00.0000000 27 Widowed 0 Ghanaian Ghanaian Forward Right 181
 - 9 Nomsa Mahlangu Polokwane City 1991-07-16 00:00:00.0000000 34 Divorced 0 Malawian Malawian Forward Left 171
 - 10 Tumelo Khumalo Kaizer Chiefs 1996-08-28 00:00:00.0000000 29 Married 4 Malawian Malawian Forward Both 175
- Bottom status bar: Ln: 22, Ch: 15 | MIXED | CRLF | Windows 1252

--2. Count the total number of players in the dataset.

```
SELECT COUNT (*) as Total_Players  
FROM[dbo].[sa_soccer_dataset_advanced];
```

The screenshot shows the SQL Server Management Studio interface with the following details:

- Query Editor window title: Total_Players
- Text input area contains: 1 300
- Results pane displays the count of players.

--3. List all unique teams in the league.

```
SELECT DISTINCT(TEAM) AS TEAM_NAME  
FROM [dbo].[sa_soccer_dataset_advanced];
```

The screenshot shows the SQL Server Management Studio interface with the following details:

- Query Editor window title: Results
- Text input area contains: TEAM_NAME
- Results pane displays the unique team names.
- Table columns: TEAM_NAME
- Data rows:
 - 1 AmaZulu FC
 - 2 Bloemfontein Celtic
 - 3 Cape Town City
 - 4 Chippa United
 - 5 Golden Arrows
 - 6 Kaizer Chiefs
 - 7 Mamelodi Sundowns
 - 8 Moroka Swallows
 - 9 Orlando Pirates
 - 10 Polokwane City
 - 11 Richards Bay FC
 - 12 Royal AM
 - 13 Sekhukhune United
 - 14 Stellenbosch FC
 - 15 SuperSport United
 - 16 TS Galaxy

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--4. Count how many players are in each team.

```
SELECT COUNT(Player_Name) as team_player, team
FROM [dbo].[sa_soccer_dataset_advanced]
GROUP BY team;
```

	team_player	team
1	22	AmaZulu FC
2	17	Bloemfontein Celtic
3	15	Cape Town City
4	21	Chippa United
5	23	Golden Arrows
6	20	Kaizer Chiefs
7	19	Mamelodi Sundowns
8	19	Moroka Swallows
9	9	Orlando Pirates
10	27	Polokwane City
11	13	Richards Bay FC
12	18	Royal AM
13	17	Sekhukhune United
14	20	Stellenbosch FC
15	20	SuperSport United
16	20	TS Galaxy

--5. Identify the top 10 players with the most goals.

```
SELECT top 10 Player_name, goals
FROM [dbo].[sa_soccer_dataset_advanced]
ORDER BY goals DESC;
```

	Player_name	goals
1	Vusi Molefe	99
2	Thabo Ndlovu	98
3	Gugu Hlongwane	98
4	Thabo Sithole	98
5	Mandla Mabena	98
6	Mpho Mahlangu	97
7	Boitumelo Nkosi	96
8	Mpho Radebe	92
9	Khanyi Nkosi	92
10	Sipho Phiri	91

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--6. Find the average salary for players in each team.

```
SELECT
    team,
    AVG(CAST(average_salary_zar AS float)) AS AVG_Salary_zar,
    COUNT(*) AS player_count
FROM [dbo].[sa_soccer_dataset_advanced]
GROUP BY team
ORDER BY AVG_Salary_zar DESC;
```

	team	AVG_Salary_zar	player_count
1	Royal AM	209078.331111111	18
2	Cape Town City	208407.432	15
3	Golden Arrows	199057.643913043	23
4	SuperSport United	195482.9785	20
5	Mamelodi Sundowns	194404.484736842	19
6	Richards Bay FC	193006.199230769	13
7	Kaizer Chiefs	188954.4615	20
8	Moroka Swallows	186786.827894737	19
9	TS Galaxy	184719.574	20
10	Stellenbosch FC	182326.7355	20
11	Chippa United	180947.634761905	21
12	Orlando Pirates	178570.593333333	9
13	AmaZulu FC	172467.569545455	22
14	Polokwane City	171738.877777778	27
15	Sekhukhune United	169945.162941176	17
16	Bloemfontein Celtic	163683.838823529	17

--7. Retrieve the top 10 players with the highest market value.

```
SELECT TOP 10 Player_name, Market_value_zar
FROM [dbo].[sa_soccer_dataset_advanced]
ORDER BY market_value_zar DESC
```

	Player_name	Market_value_zar	team
1	Ayanda Mabaso	24979190.35	Bloemfontein Celtic
2	Lebogang Mabena	24887821.58	Mamelodi Sundowns
3	Gugu Mashaba	24868294.94	Moroka Swallows
4	Kagiso Mokoena	24550182.81	Golden Arrows
5	Boitumelo Radebe	24540830.44	Sekhukhune United
6	Thabo Ndlovu	24380712.61	Mamelodi Sundowns
7	Sipho Mashaba	24342131.59	Golden Arrows
8	Lerato Ngobeni	24231618.07	AmaZulu FC
9	Thabo Tshabalala	24229791.64	Cape Town City
10	Lerato Tshabalala	24226785.17	Chippa United

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--8. Calculate the average passing accuracy for each position.

```
SELECT
    position,
    AVG(TRY_CAST(passing_accuracy AS FLOAT)) AS average_passing_accuracy
FROM [dbo].[sa_soccer_dataset_advanced]
GROUP BY position
ORDER BY average_passing_accuracy DESC;
```

	position	average_passing_accuracy
1	Goalkeeper	83.9397058823529
2	Forward	83.210843373494
3	Midfielder	82.8177215189873
4	Defender	82.6642857142857

--9. Compare shot accuracy with goals to find correlations.

```
SELECT
    team,
    SUM(CAST(goals AS FLOAT)) AS total_goals,
    AVG(CAST(shot_accuracy AS FLOAT)) AS avg_shot_accuracy,
    COUNT(*) AS player_count
FROM [dbo].[sa_soccer_dataset_advanced]
WHERE TRY_CAST(goals AS FLOAT) IS NOT NULL
    AND TRY_CAST(shot_accuracy AS FLOAT) IS NOT NULL
GROUP BY team
ORDER BY avg_shot_accuracy DESC;
```

	team	total_goals	avg_shot_accuracy	player_count
1	Cape Town City	374	69.82666666666667	15
2	Moroka Swallows	729	69.3736842105263	19
3	SuperSport United	580	68.055	20
4	Orlando Pirates	170	67.9222222222222	9
5	Stellenbosch FC	725	67.575	20
6	Sekhukhune United	842	67.2058823529412	17
7	Royal AM	544	66.56666666666667	18
8	Richards Bay FC	453	66.3230769230769	13
9	Golden Arrows	676	65.6521739130435	23
10	AmaZulu FC	546	63.6681818181818	22
11	Polokwane City	1300	63.6	27
12	Mamelodi Sundowns	570	63.1263157894737	19
13	Bloemfontein Celtic	613	63.0823529411765	17
14	TS Galaxy	541	63.06	20
15	Chippa United	684	61.2142857142857	21
16	Kaizer Chiefs	597	60.455	20

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```
--10. Compute total goals and assists for each team.  
SELECT  
    team,  
    SUM(CAST(goals AS FLOAT)) AS total_goals,  
    SUM(CAST(assists AS FLOAT)) AS total_assists,  
    SUM(CAST(goals AS FLOAT)) + SUM(CAST(assists AS FLOAT)) AS  
    total_goal_contributions,  
    COUNT(*) AS player_count  
FROM [dbo].[sa_soccer_dataset_advanced]  
GROUP BY team  
ORDER BY total_goal_contributions DESC;
```

	team	total_goals	total_assists	total_goal_contributions	player_count
1	Polokwane City	1300	783	2083	27
2	Sekhukhune United	842	608	1450	17
3	Stellenbosch FC	725	514	1239	20
4	Golden Arrows	676	519	1195	23
5	Moroka Swallows	729	452	1181	19
6	Bloemfontein Celtic	613	566	1179	17
7	AmaZulu FC	546	568	1114	22
8	SuperSport United	580	514	1094	20
9	Kaizer Chiefs	597	481	1078	20
10	Mamelodi Sundowns	570	475	1045	19
11	Royal AM	544	480	1024	18
12	Chippa United	684	205	889	21
13	TS Galaxy	541	337	878	20
14	Richards Bay FC	453	273	726	13
15	Cape Town City	374	284	658	15
16	Orlando Pirates	170	225	395	9

```
--11. Count players by their marital status.
```

```
SELECT  
    marital_status,  
    COUNT(player_name) AS Count_Players  
FROM [dbo].[sa_soccer_dataset_advanced]  
GROUP BY marital_status;
```

	marital_status	Count_Players
1	Divorced	78
2	Married	65
3	Single	79
4	Widowed	78

--12. Count players by nationality.

```
SELECT
    nationality,
    COUNT(player_name) AS player_count
FROM [dbo].[sa_soccer_dataset_advanced]
GROUP BY nationality
ORDER BY player_count DESC;
```

	nationality	player_count
1	Ghanaian	47
2	South African	46
3	Zimbabwean	45
4	Zambian	44
5	Malawian	42
6	Nigerian	39
7	Mozambican	37

--13. Find average market value grouped by nationality.

```
SELECT nationality,
       AVG(CAST(market_value_zar AS FLOAT)) AS avg_market_value_zar,
       COUNT(*) AS player_count
FROM [dbo].[sa_soccer_dataset_advanced]
GROUP BY nationality
ORDER BY avg_market_value_zar DESC;
```

	nationality	avg_market_value_zar	player_count
1	Nigerian	15069261.3964103	39
2	Mozambican	14736203.5943243	37
3	Zambian	12777043.0611364	44
4	Ghanaian	12298308.0365957	47
5	South African	12037870.2363043	46
6	Malawian	11727296.0554762	42
7	Zimbabwean	10367909.5322222	45

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--14. Determine how many player contracts end in each year.

```
SELECT
    contract_end_year,
    COUNT(*) AS player_count
FROM [dbo].[sa_soccer_dataset_advanced]
WHERE contract_end_year IS NOT NULL
GROUP BY contract_end_year
ORDER BY contract_end_year;
```

	contract_end_year	player_count
1	2026	63
2	2027	70
3	2028	52
4	2029	50
5	2030	65

--15. Identify players whose contracts end next year.

```
SELECT Player_name,
       contract_end_year
FROM [dbo].[sa_soccer_dataset_advanced]
WHERE contract_end_year = 2026
ORDER BY player_name;
```

	Player_name	contract_end_year
1	Ayanda Mabaso	2026
2	Ayanda Sithole	2026
3	Boitumelo Radebe	2026
4	Gugu Mashaba	2026
5	Gugu Tshabalala	2026
6	Kagiso Molefe	2026
7	Kagiso Phiri	2026
8	Karabo Mokoena	2026
9	Karabo Molefe	2026
10	Karabo Mthembu	2026
11	Karabo Nkosi	2026
12	Khanyi Phiri	2026
13	Khanyi Tshabalala	2026
14	Lebogang Mashaba	2026
15	Lebogang Mashaba	2026
16	Lebogang Phiri	2026
17	Lerato Dlamini	2026
18	Lerato Mabena	2026
19	Lerato Sithole	2026
20	Lerato Tshabalala	2026
21	Lindiwe Mabaso	2026
22	Lindiwe Mabena	2026

Query executed successfully.

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--16. Summarize the number of players by injury status.

```
SELECT
    injury_status,
    COUNT(*) AS player_count
FROM [dbo].[sa_soccer_dataset_advanced]
GROUP BY injury_status
ORDER BY player_count DESC;
```

	injury_status	player_count
1	Recovering	104
2	Healthy	99
3	Injured	97

--17. Calculate goals per match ratio for each player.

```
SELECT
    player_name,
    team,
    position,
    CAST(goals AS FLOAT) AS total_goals,
    CAST(matches_played AS FLOAT) AS total_matches,
    ROUND ( TRY_CAST(goals AS FLOAT) / NULLIF(TRY_CAST(matches_played AS FLOAT),
    0),2) AS goals_per_match
FROM [dbo].[sa_soccer_dataset_advanced]
WHERE TRY_CAST(matches_played AS FLOAT) > 0
ORDER BY goals_per_match DESC;
```

	player_name	team	position	total_goals	total_matches	goals_per_match
1	Thembi Zulu	Sekhukhune United	Forward	72	3	24
2	Thabo Mthembu	Moroka Swallows	Forward	88	5	17.6
3	Gugu Tshabalala	TS Galaxy	Forward	57	9	6.33
4	Lindiwe Mabaso	Mamelodi Sundowns	Midfielder	67	13	5.15
5	Mpho Zulu	TS Galaxy	Goalkeeper	5	1	5
6	Sipho Tshabalala	Stellenbosch FC	Forward	110	26	4.23
7	Boitumelo Nkosi	Stellenbosch FC	Forward	96	25	3.84
8	Karabo Tshabalala	Stellenbosch FC	Forward	106	30	3.53
9	Lindiwe Zulu	Kaizer Chiefs	Forward	34	11	3.09
10	Sipho Phiri	Royal AM	Midfielder	91	33	2.76
11	Sipho Dlamini	TS Galaxy	Forward	43	22	1.95
12	Ayanda Sithole	Golden Arrows	Midfielder	107	60	1.78
13	Nomsa Mashaba	Royal AM	Midfielder	90	58	1.55
14	Thabo Ndlovu	Mamelodi Sundowns	Midfielder	60	40	1.5
15	Sibusiso Mabaso	TS Galaxy	Midfielder	104	78	1.33
16	Thabo Sithole	TS Galaxy	Midfielder	98	76	1.29
17	Thembi Dlamini	Golden Arrows	Forward	77	63	1.22
18	Kagiso Phiri	Richards Bay FC	Midfielder	117	101	1.16
19	Mpho Radebe	Polokwane City	Midfielder	92	83	1.11
20	Gugu Dlamini	Moroka Swallows	Forward	65	59	1.1
21	Thembi Mokoena	Sekhukhune United	Midfielder	90	86	1.05
22	Kagiso Mashaba	Polokwane City	Forward	64	62	1.03

Query executed successfully.

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--18. Count how many players are managed by each agent.

```
SELECT agent,
       COUNT(player_name) AS number_of_players
  FROM [dbo].[sa_soccer_dataset_advanced]
 GROUP BY agent;
```

	agent	number_of_players
1	None	62
2	PlayerFirst	63
3	ProSport	62
4	SA Elite Agents	51
5	SoccerLink Africa	62

--19. Calculate average height and weight by player position.

```
SELECT
      position,
      ROUND(AVG(height_cm), 2) AS avg_height_cm,
      ROUND(AVG(weight_kg), 2) AS avg_weight_kg,
      COUNT(*) AS player_count
  FROM [dbo].[sa_soccer_dataset_advanced]
 WHERE height_cm IS NOT NULL
   AND weight_kg IS NOT NULL
 GROUP BY position
 ORDER BY position;
```

	position	avg_height_cm	avg_weight_kg	player_count
1	Defender	182	78	70
2	Forward	179	78	83
3	Goalkeeper	179	78	68
4	Midfielder	179	76	79

--20. Identify players with the highest combined goals and assists.

```
SELECT
      player_name,
      team,
      position,
      CAST(goals AS FLOAT) AS total_goals,
      CAST(assists AS FLOAT) AS total_assists,
      (CAST(goals AS FLOAT) + CAST(assists AS FLOAT)) AS combined_goal_contributions
  FROM [dbo].[sa_soccer_dataset_advanced]
 ORDER BY combined_goal_contributions DESC;
```

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	player_name	team	position	total_goals	total_assists	combined_goal_contributions
1	Siyanda Mabena	Sekhukhune United	Midfielder	118	75	193
2	Zanele Molefe	SuperSport United	Midfielder	116	76	192
3	Vusi Radebe	Stellenbosch FC	Midfielder	112	76	188
4	Ayanda Sithole	Golden Arrows	Midfielder	107	72	179
5	Ayanda Sithole	Bloemfontein Celtic	Midfielder	110	68	178
6	Vusi Molefe	Stellenbosch FC	Forward	99	77	176
7	Thembi Phiri	Royal AM	Midfielder	102	71	173
8	Gugu Mahlangu	Bloemfontein Celtic	Forward	106	65	171
9	Nokuthula Mabena	SuperSport United	Midfielder	114	53	167
10	Khanyi Baloyi	Bloemfontein Celtic	Forward	112	51	163
11	Zanele Phiri	TS Galaxy	Forward	117	44	161
12	Kagiso Dlamini	Golden Arrows	Forward	111	48	159
13	Thabo Phiri	Moroka Swallows	Forward	105	51	156
14	Karabo Tshabalala	Stellenbosch FC	Forward	106	49	155
15	Nomsa Khumalo	Moroka Swallows	Forward	82	73	155
16	Lindiwe Radebe	Chippa United	Forward	113	41	154
17	Nokuthula Dlamini	Polokwane City	Forward	109	44	153
18	Mandla Baloyi	Kaizer Chiefs	Midfielder	89	63	152
19	Boitumelo Nkosi	Stellenbosch FC	Forward	96	54	150
20	Karabo Phiri	Chippa United	Forward	114	29	143
21	Zanele Mabaso	Kaizer Chiefs	Forward	106	36	142
22	Kagiso Phiri	Richards Bay FC	Midfielder	117	25	142

✓ Query executed successfully.

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